

ACTIVELY QUENCHED LAMP, INFRARED  
THERMOGRAPHY IMAGING SYSTEM, AND  
METHOD FOR ACTIVELY CONTROLLING FLASH  
DURATION

ABSTRACT OF THE DISCLOSURE

[0039] An actively quenched lamp includes a lamp and an active quenching means configured to quench the lamp. An infrared ("IR") thermography imaging system includes at least one lamp configured to heat a surface of an object to be imaged, at least one active quenching means configured to quench the lamp, and an IR camera configured to capture a number of IR image frames of the object. A method, for actively controlling flash duration for IR thermography, includes generating an initial control signal T0, a lamp control signal T1, and a control signal T2. The method further includes activating a quenching means in response to initial control signal T0, to allow current I to flow to a lamp, activating the lamp in response to lamp trigger signal T1, and turning off the quenching means in response to control signal T2 to cut off the current I to the lamp.